

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A vehicle displacement sensor comprising:  
a wireless transmitter including a power source generating a wireless signal indicative of a vehicle displacement that periodically transmits said signal; and  
a wireless receiver receiving said wireless signal from said transmitter.
2. (Original) The vehicle displacement sensor of claim 1 wherein said transmitter is mounted on a rotating component of a vehicle.
3. (Original) The vehicle displacement sensor of claim 2 wherein said transmitter is mounted on a wheel.
4. (Cancelled).
5. (Previously Presented) The vehicle displacement sensor of claim 1 wherein said power source generates power based upon motion.
6. (Original) The vehicle displacement sensor of claim 2 wherein said transmitter generates an acoustic signal.
7. (Original) The vehicle displacement sensor of claim 2 wherein said transmitter

generates an RF signal.

8. (Original) The vehicle displacement sensor of claim 2 wherein said transmitter generates a fixed number of beacon signals upon each revolution of the vehicle part.

9. (Previously Presented) The vehicle displacement sensor of claim 8 wherein said fixed number is one.

10. (Original) The vehicle displacement sensor of claim 1 wherein said transmitter generates modulated RF signal indicative of vehicle displacement.

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11. (Currently Amended) A vehicle displacement sensor comprising:  
means for generating a wireless signal indicative of rotational displacement of a vehicle part  
which periodically transmits said wireless signal; and  
a wireless receiver receiving said wireless signal; and  
means for determining displacement of a vehicle based upon said wireless signal.

12. (Original) The vehicle displacement sensor of claim 11 wherein said means for generating is mounted on a wheel.

13. (Original) The vehicle displacement sensor of claim 12 wherein said means for generating includes a power source generating power based upon rotation.

14. (Original) The vehicle displacement sensor of claim 11 wherein said wireless signal is an acoustic signal.

15. (Original) The vehicle displacement sensor of claim 11 wherein said wireless signal is an RF signal.

16. (Original) The vehicle displacement sensor of claim 11 wherein said means for generating generates a fixed number of beacon signals upon each revolution of the vehicle part.

17. (Previously Presented) The vehicle displacement sensor of claim 11 wherein said fixed number is one.

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18. (Original) The vehicle displacement sensor of claim 11 wherein said means for generating generates a modulated RF signal indicative of vehicle displacement.

19. (Original) The vehicle displacement sensor of claim 11 further including a mass movable relative to said vehicle part based upon motion, said wireless signal generated based upon motion of said mass.

20. (Original) The vehicle displacement sensor of claim 19 wherein said mass is mounted to a piezo-electric device.

21. (Previously Presented) The vehicle displacement sensor of claim 11 further

including means for calibrating said wireless signal to vehicle displacement while the vehicle is moving.

22. (Original) The vehicle displacement sensor of claim 11 further including means for dead-reckoning a position of a vehicle based upon said wireless signal.

23. (Currently Amended) A navigation system comprising:  
means for generating a wireless signal including a power source indicative of rotational displacement of a vehicle part which periodically transmits said wireless signal;  
a receiver receiving said wireless signal; and  
means for propagating a position of the vehicle based upon said wireless signal.

24. (Currently Amended) The navigation system of ~~Claim~~ claim 23 further including means for calibrating said wireless signal to vehicle displacement while the vehicle is moving.

25. (Currently Amended) The navigation system of ~~Claim~~ claim 23 further including a database of roads, said position of said vehicle propagated relative to said database of roads.

26. (Original) The vehicle displacement sensor of claim 23 further including means for dead-reckoning a position of a vehicle based upon said wireless signal.

27. (Original) The vehicle displacement sensor of claim 23 wherein said means for generating a wireless signal counts rotations of a vehicle wheel.

28. (Original) The vehicle displacement sensor of claim 27 further including means for calibrating rotations of said vehicle wheel to displacement of the vehicle.

29. (Currently Amended) A method for determining vehicle displacement including the steps of:

generating a wireless signal indicative of rotational displacement of a vehicle part which  
periodically transmits said wireless signal;

receiving said wireless signal; and

determining displacement of a vehicle based upon said wireless signal.

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30. (Currently Amended) The method of determining vehicle displacement of ~~Claim~~  
claim 29 further including the step of calibrating the wireless signal to vehicle displacement.

31. (Previously Presented) The method of claim 30 further including the step of dead-reckoning a position of a vehicle based upon the wireless signal.

32. (Original) The method of claim 31 wherein the dead-reckoning the position of the vehicle is based upon the calibrated wireless signal.